# ATTACHMENT B: AREA OF REVIEW AND CORRECTIVE ACTION PLAN 40 CFR 146.84(b)

### **Facility Information**

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Location:

# 3.0 AoR and Corrective Action Plan

### 3.1 Computational Modeling Approach

The computational modeling workflow begins with the development of a three-dimensional representation of subsurface geology. It leverages well data (bottom and surface hole location, wellbore trajectory, well logs, etc.) and 3-D seismic data for rendering structural surfaces into a geo-cellular grid. Attributes of the grid include porosity and permeability distributions of reservoir lithologies. This geologic model is often referred to as a static model, as it reflects the reservoir at a single moment. CTV licenses Schlumberger Petrel, industry-standard geo-cellular modeling software, for building and maintaining static models. The static model becomes dynamic in the computational modeler with the addition of:

- Fluid properties such as density and viscosity for CO₂ and water phases
- Liquid and gas relative permeability
- Capillary pressure data
- Proposed injection well completions and injection rates over the life of the project

Results from the computational model are used to establish the area of review (AoR), the 'region surrounding the geologic sequestration project where underground sources of drinking water (USDWs) may be endangered by the injection activity' (EPA 75 FR 77230). In the case of the CTV III storage project, the AoR encompasses the maximum aerial extent of the critical pressure front that was calculated as being necessary to move brine from the injection zone to the USDW via an open conduit.

#### 3.1.1 Model Background

Computational modeling was completed using Computer Modeling Group's (CMG) Equation of State Compositional Simulator (GEM). GEM is capable of modeling enhanced oil recovery, chemical EOR, geomechanics, unconventional reservoir, geochemical EOR and carbon capture and storage. GEM can model flow of three components (gas, oil and aqueous) and multi-phase fluids as well as predict phase equilibrium compositions, densities, and viscosities of each phase. This simulator incorporates all the physics associated with handling of relative permeability as a function of interfacial tension (IFT), velocity, composition, and hysteresis. Computational modeling for the  $CO_2$  plume utilized the Peng-Robinson Equation of State and the solubility of  $CO_2$  in water is modeled by Henry's Law. The Peng-Robinson Equation of State establishes the properties of  $CO_2$  over the Pressures and temperatures of the model. Solubility of  $CO_2$  in aqueous phase was modeled by Henry's Law as a function of pressure, temperature, and salinity.

The plume model defines the potential quantity of CO<sub>2</sub> stored and simulates lateral and vertical movement of the CO<sub>2</sub> to define the extent of the CO<sub>2</sub> plume and the pressure changes in the reservoir during and after injection which are used to define the AoR.

The simulator predicts the evolution of the CO<sub>2</sub> plume by:

- 1. Incorporating complex reservoir geometry and wells and utilizing a full field static geological three-dimensional characterization of the reservoir incorporating lithology, saturation, porosity, and permeability.
- 2. Forecasting the CO<sub>2</sub> plume movement and growth by inputting the operating parameters into simulation (injection pressure and rates).
- 3. Assessing the movement of CO<sub>2</sub> after injection ceases and allowing the plume to reach equilibrium, including pressure equilibrium and compositions in each phase.

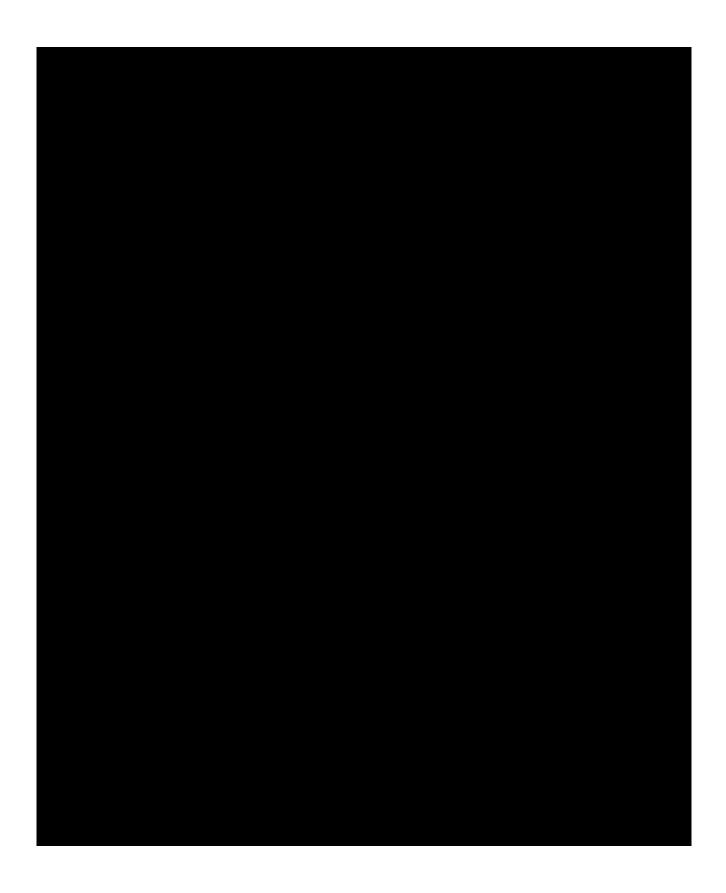
CMG's GEM software has been used in numerous CO<sub>2</sub> sequestration peer reviewed papers, including:

- 1. Simulation of CO<sub>2</sub> EOR and Sequestration Processes with a Geochemical EOS Compositional Simulator. L. Nghiem et al
- 2. Model Predictions Via History Matching of CO<sub>2</sub> Plume Migration at the Sleipner Project, Norwegian North Sea. Zhang, Guanru et al
- 3. Geomechanical Risk Mitigation for CO<sub>2</sub> Sequestration in Saline Aquifers. Tran, Davis et al.

3.1.2 Site Geology and Hydrology		



The Class VI injection wells will target injection in the	sands.
Well data, open-hole	e well logs and
core (Figure 3.2), define the subsurface geological characteristics of stratigraphy	, lithology and
rock properties.	



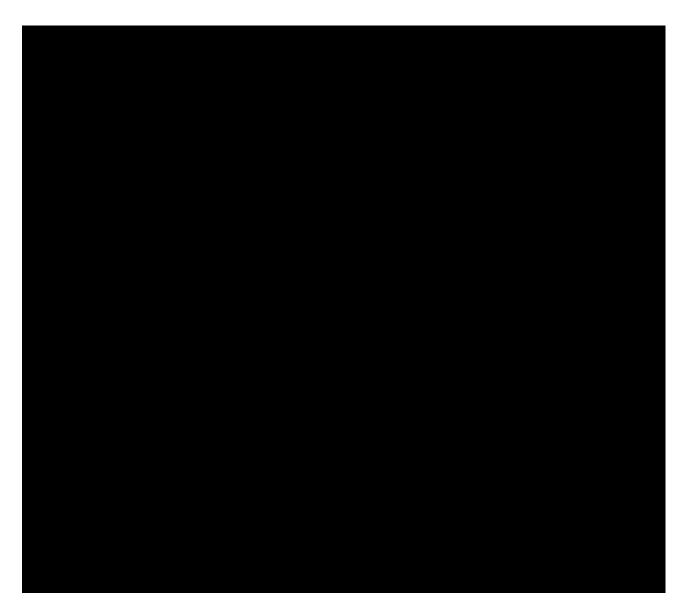
#### 3.1.3 Model Domain

A static geological model developed with Schlumberger's Petrel software, commonly used in the petroleum industry for exploration and production, is the computational modeling input. It allows the user to incorporate seismic and well data to build reservoir models and visualize reservoir simulation results. Model domain information is summarized in **Table 3.1**.

Table 3.1. Model domain information.

Coordinate System	State Plane		
HorizontalDatum	North American Date	um (NAD) 27	
Coordinate System Units	Feet		
Zone	Zone 2		
FIPSZONE	0402	ADSZONE	3301
Coordinate of X min		Coordinate of X max	
Coordinate of Y min		Coordinate of Y max	
Elevation of bottom of domain		Elevation of top of domain	

A tartan grid with varying cell XY dimensions was ro	tated
	aligned with the structural
and depositional trends of the	and is parallel to the direction of fluid
flow which allows for faster computation times. In predominantly 500'x500' but some cells are as small at the planned injectors. The grid cell size increases winjection area, where cells up to 1000'x1000' cover that the injectors.	s 50'x50' in the region immediately around with greater distance away from the main



The open-hole logs have a half-foot resolution and a constant vertical cell height of 20 feet was utilized over the model domain to generate grid layers as shown in **Figure 3.4**. The 20-foot cell height provides the vertical resolution necessary to capture significant lithologic heterogeneity (sand versus shale) which helps to ensure accurate upscaling of log data and distribution of reservoir properties in the static model. **Figure 3.5** shows a comparison of open-hole log data and the associated upscaled logs for a well within the AoR.





# 3.1.4 Porosity and Permeability

Wireline log data was acquired with measurements that include but are not limited to spontaneous potential, natural gamma ray, borehole caliper, compressional sonic, resistivity as well as neutron porosity and bulk density.

Formation porosity is determined one of two ways: from bulk density using 2.65 g/cc matrix density as calibrated from core grain density and core porosity data, or from compressional sonic using 55.5 µsec/ft matrix slowness and the Raymer-Hunt equation.

Volume of clay is determined by spontaneous potential and is calibrated to core data.

Log-derived permeability is determined by applying a core-based transform that utilizes capillary pressure porosity and permeability along with clay values from XRD or FTIR. Core data from two wells with 13 data points was used to develop a permeability transform (**Figure 3.6**). The transform from core data is illustrated in **Figure 3.7**.



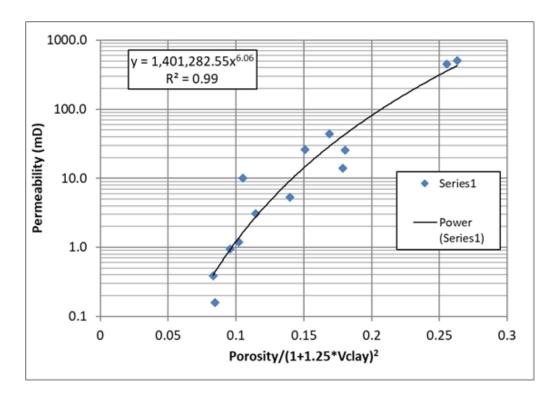
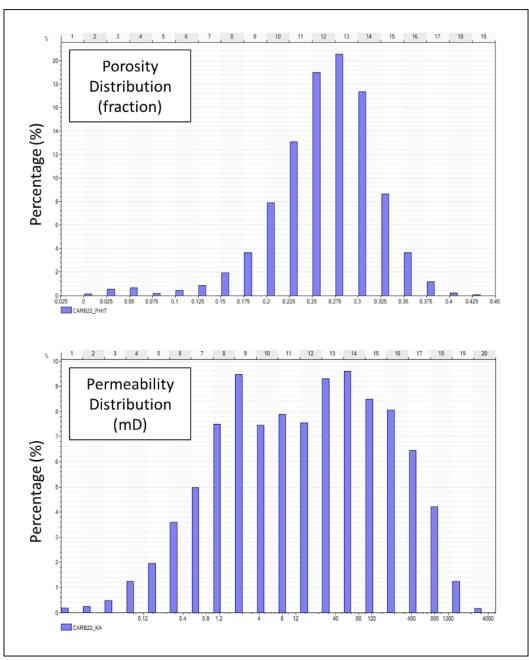
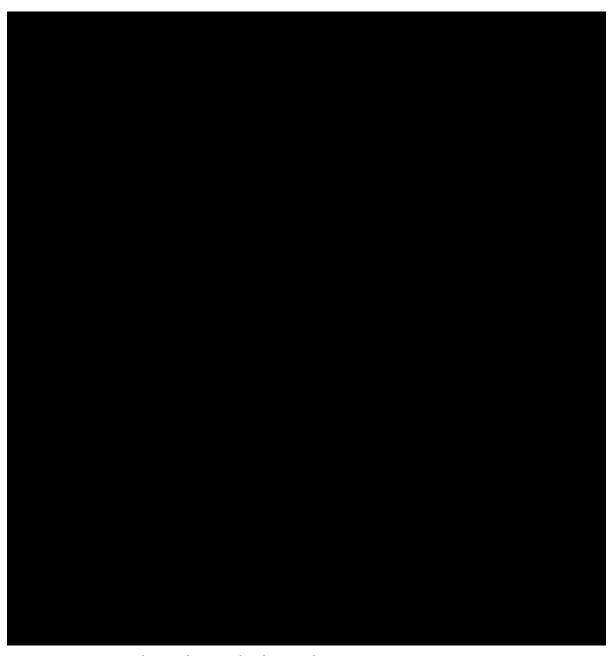


Figure 3.7. Permeability transform for Sacramento Basin zones

Figure 3.8 shows porosity and permeability histograms for the Porosity is derived from open-hole well log analysis and permeability is a function of porosity and clay volume. Figure 3.8 shows the distribution of permeability and porosity using Sequential Gaussian simulation (kriging) within the static model.



**Figure 3.8.** porosity and permeability distribution in the static model.



# **3.1.5 Constitutive Relationships and Other Rock Properties**

The simulation and AoR will be updated once site specific core data is obtained during the pre-operational testing phase.

**Figure 3.10 and 3.11** shows the relative permeability curve and capillary pressure curve used in the computational modeling.

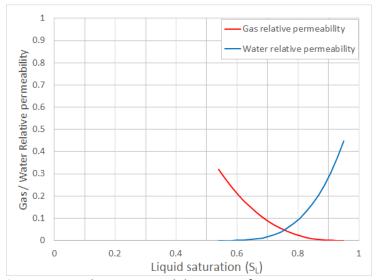


Figure 3.10. Relative permeability curves for Gas-Water system

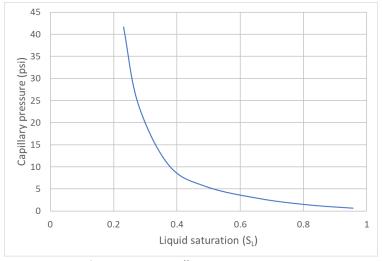


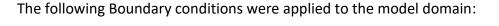
Figure 3.11. Capillary pressure curve

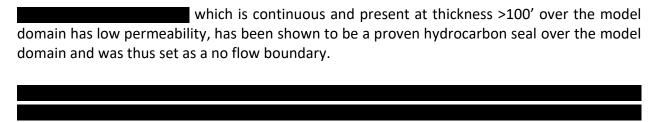
#### 3.1.6 Mineralization

Previous studies into reactive transport modeling and geochemical reaction in CCS have shown that the amount of CO<sub>2</sub> trapped by mineralization reactions is extremely small over a 100-year post injection time frame (IPCC, 2005: IPCC Special Report on Carbon Dioxide Capture and Storage, prepared by Working Group III of the Intergovernmental Panel on Climate Change) for sandstone reservoirs.

Due to the low salinity expected for the the formation, minor expected effect on the AoR and for computational efficiency, reactive transport was not included as a part of the compositional simulation modeling done for the project at this time.

# 3.1.7 Boundary Conditions





# 3.1.8 Initial Conditions

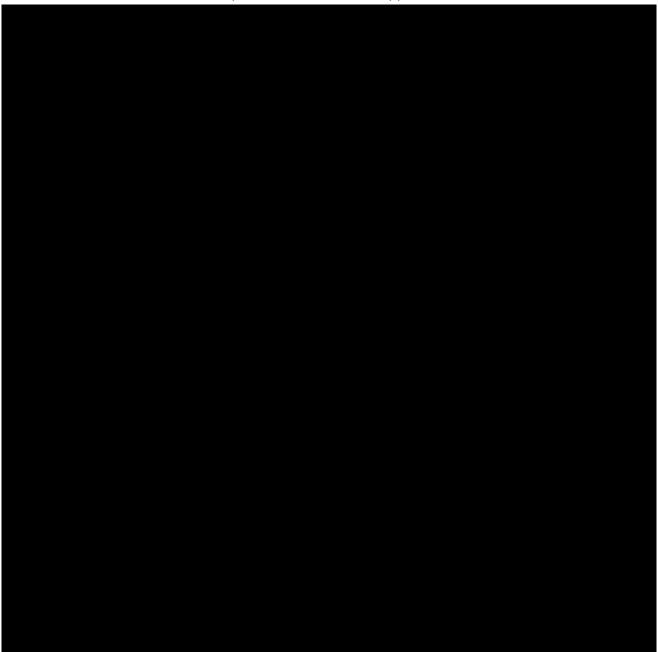
Initial model conditions (start of CO2 injection) of the Mokelumne River Formation are given in Table 3.2.

Table 3.2. Initial conditions.

Parameter	Value or Range	Units	Corresponding Elevation (ft MSL)	Data Source
Temperature	151	Fahrenheit		Bottom hole temperature data from logs in the area
Formation pressure	2860	Pounds per square inch		
Salinity	15,500	Parts per million		Water analysis and Log calculated salinity curves

# 3.1.9 Operational Information

Details on the injection operation are presented in Table 3.3. Further details are provided in the Narrative document and in the Operational Procedures Appendix.



# 3.1.10 Fracture Pressure and Fracture Gradient

Calculated fracture gradient and target injection pressure values are given in Table 3.4.

A fracture pressure gradient of 0.76 psi/ft is assumed for the injection zone.

CTV will conduct a step rate test in the injection zone as part of the pre-operational testing plan to confirm this fracture pressure gradient.

At this time, no fracture gradient information has been found for the \_\_\_\_\_\_. CTV will

conduct a step rate test for the assertion as part of the pre-operational testing.

CTV will ensure that the injection pressure is below 90% of the injection zone fracture gradient at the top of perforations in the injection wells (Table 3.4). CTV expects to operate the wells with a planned bottom hole injection pressure well below the maximum allowable injection pressure calculated using the fracture gradient and safety factor.

**Table 3.4.** Injection pressure details.

Injection Pressure Details	Injection Well C1	Injection Well C2	Injection Well E1	Injection Well E2	Injection Well W1	Injection Well W2
Fracture gradient (psi/ft)	0.76	0.76	0.76	0.76	0.76	0.76
Maximum allowable injection pressure (90% of fracture pressure) (psi)	4224	4919	4111	4774	4207	4802
Elevation corresponding to maximum injection pressure (ft TVD)	6178	7192	6011	6984	6155	7020
Elevation at the top of the perforated interval (ft TVD)	6178	7192	6011	6984	6155	7020
Calculated maximum injection pressure at the top of the perforated interval (psi)	4224	4919	4111	4774	4207	4802
Planned injection pressure (psi) / gradient (psi/ft) at top of perforations						

# 3.2 Computational Modeling Results

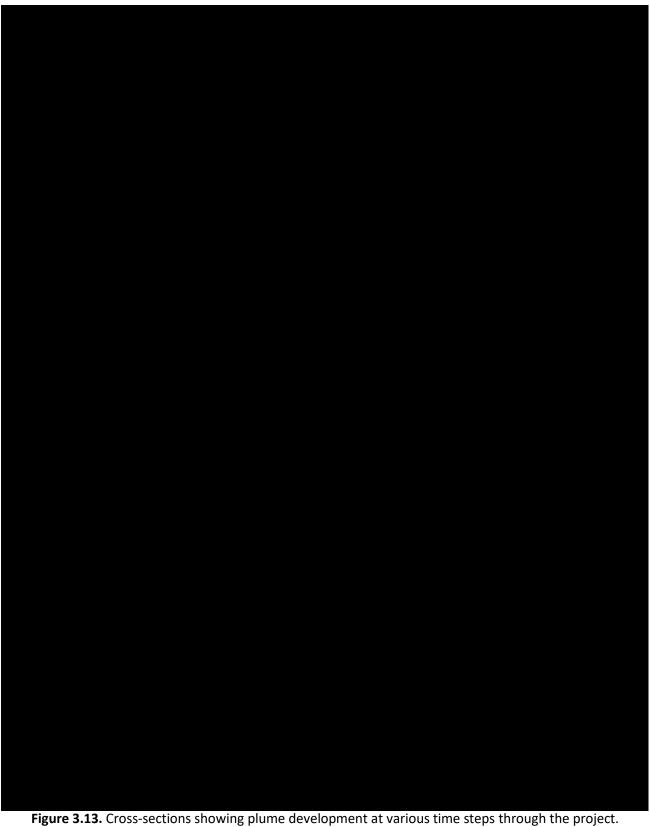
# 3.2.1 Predictions of System Behavior

**Figure 3.12** and **Figure 3.13** show the computational modeling results and development of the  $CO_2$  plume at different time steps. The boundaries of the  $CO_2$  plume have been defined with a 0.01  $CO_2$  global mole fraction cutoff.

As shown in **Figure 3.12**, the  $CO_2$  extent is largely defined by after the end of injection. The majority of the  $CO_2$  injectate remains as super-critical  $CO_2$  (83%) with the remaining portion of the  $CO_2$  dissolving in the formation brine over the simulated 100 years post injection.



**Figure 3.12:** Plume development through time:





#### 3.2.2 Model Calibration and Validation



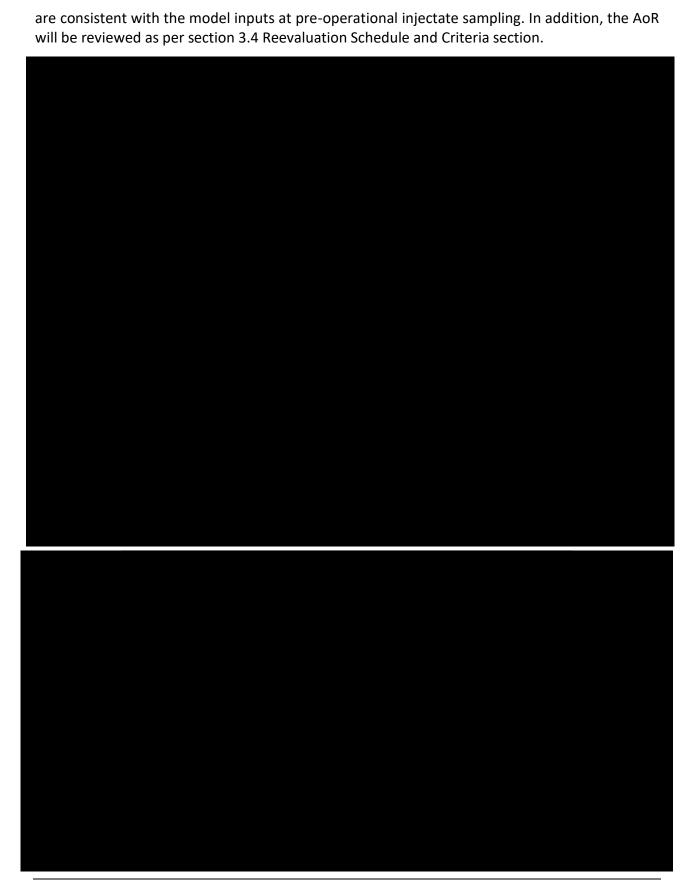
# 3.2.2.1 CO<sub>2</sub> Injectate effect on Plume and AoR modeling results

The Plume model developed in the Computer Modeling Group (CMG) GEM software was run for the two simplified injectate compositions, and their results were also compared against a 100% CO2 injectate case. The cumulative volume of injectate for all 3 cases was the same.

The CO2 plume for Injectate 1 and Injectate 2 is consistent with the plume outline for 100% CO2 injectate (Figure 1), which was defined by a 0.05 global CO2 mole fraction for all 3 cases. The 100 year post end of injection plumes for the 3 cases are shown below in Figure 1. The wells that fall within the CO2 plume are the same for all 3 cases.

Similarly, the AoR was delineated using Critical pressure for the 3 cases and was found to be consistent. Details on the Critical pressure calculation method are discussed in the "Attachment B – AoR and Corrective Action" document. Figure 1 shows the AoR boundary for the 3 cases. Additionally, the average Pore Volume pressure within the approximate AoR boundary was plotted for the 3 cases and was found to be very close with a maximum difference of ~3 psi seen between the cases, as shown in Figure 3.

In summary, there is minimal effect of the minor components on the CO2 plume shape and the AoR boundary, for the proposed injectate compositions. As such, CTV's Plume and AoR modeling for Corrective Action assessment is adequate. CTV will confirm that the properties of the injectate



# 3.2.2.2 Sensitivity cases

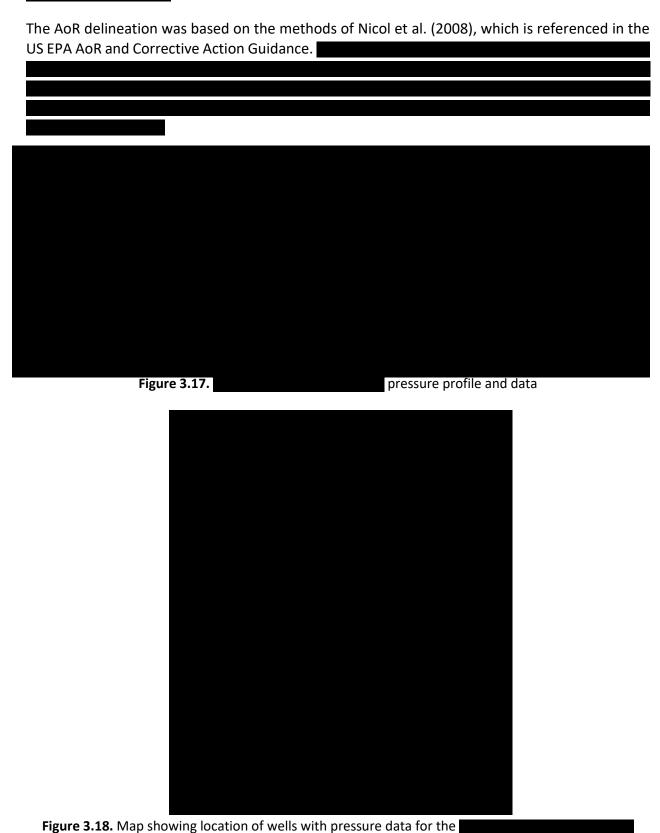
In addition, scenarios were run to test the effect of varying major model inputs on the CO₂ plume and AoR extent.

Table 3.5. Simulation sensitivity scenarios

Scenario	CO <sub>2</sub> plume & AoR impact
Porosity: 10% reduction from base case	Minimal Impact
Porosity: 10% increase from base case	Minimal Impact
Permeability: 10% reduction from base case	Minimal Impact
Permeability: 10% increase from base case	Minimal Impact

These scenarios and the comparison against previous work in the area provides us with confidence in the  $CO_2$  plume extent and AoR, and that the corrective action well review and potential impact to the USDW has been appropriately evaluated.

# 3.2.3 AoR Delineation



For the purpose of calculating the critical pressure and delineating the AoR for the project area, and the following equations were used to calculate critical pressure across the model domain:

$$\Delta P_{C,norm} = g(Z_V - Z_I) \left[ \frac{\lambda - \xi}{2} (Z_V - Z_I) + \rho_{I,\lambda} - \rho_I \right] - \text{Eq (1)}$$

$$\Delta P_c = \Delta P_{C.norm} + \Delta P_u - \text{Eq (2)}$$

Where,

 $\Delta P_{C,norm}$  - the admissible overpressure in a normally pressured aquifer before fluid in the injection zone would flow into the USDW through a hypothetical open conduit

 $\Delta P_c$  - the admissible overpressure in an under-pressured aquifer before fluid in the injection zone would flow into the USDW through a hypothetical open conduit

 $\Delta P_u$  - the difference of normal pressure to actual pressure in the under-pressured aquifer, assumed across the model domain

g - acceleration due to gravity, 9.81m/s<sup>2</sup>

 $Z_V$  - Elevation of the injection zone

 $Z_I$  - Elevation of the base of the USDW

density gradient in the conduit at constant injection zone brine TDS

 $\xi$  - density gradient in the conduit at initial condition  $\rho_{I,\lambda}$  - Density of the injection zone brine at USDW depth

 $ho_I$  - Density of the brine in the conduit at USDW depth at initial condition

An average TDS of 15,500ppm was assumed for the injection zone and an average TDS of 7,900ppm was assumed for the USDW based on Salinity calculations in the project area. Injection zone and USDW depths were based on the model grid and USDW mapping in the project area. Density and density gradients were calculated as a function of temperature and salinity using standard methods (McCutcheon et. al. 1993). Using these, the critical pressure was calculated at each grid point in the Petrel model using **Equations 1 & 2**, and combined with the pressure outputs from the plume simulation to delineate an AoR boundary at different timesteps. The final AoR boundary was based on the outermost threshold overpressure 14 years into the injection which is when the maximum extent was seen. **Figure 3.19** shows the AoR extent, CO<sub>2</sub> plume extent, injector locations and proposed monitoring well locations. Details on the monitoring wells are discussed in further detail in Attachment C – Testing and Monitoring Plan.

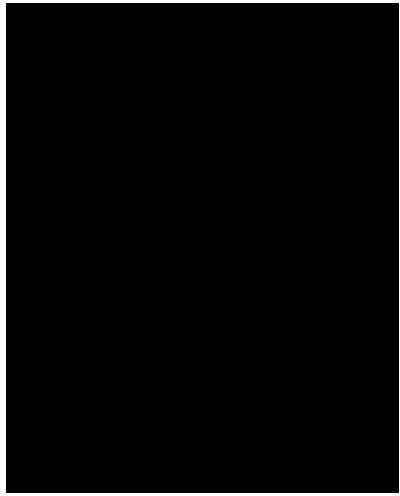


Figure 3.19: Map showing the location of injection wells and monitoring wells.

# **3.3 Corrective Action**

#### 3.3.1 Tabulation of Wells within the AoR

As such, there are excellent records for wells drilled in the study area. There have been no undocumented historical wells found in the AoR.

CTV accessed internal databases as well as California Geologic Energy Management Division (CalGEM) information to identify and confirm wells within the AoR.

Table 3.6 provides counts of the AoR wellbores by status and type, for each wellbore with a unique API-12 identifier. Appendix B-1 provides a complete list of all wellbores by API-12 within the AoR. As required by 40 CFR 146.84(c)(2), the well table in Appendix B-1 describes each well's type, construction, date drilled, location, measured depth, true vertical depth, completion record relative to

corrective action, if necessary. CTV also identifies well work to be completed during the preoperational testing phase.

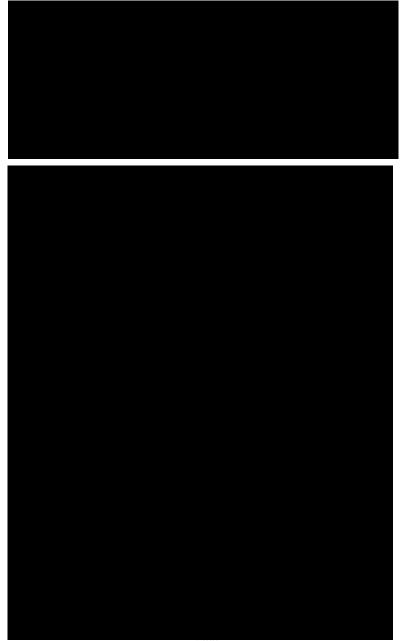


Figure 3.20. Wells penetrating the reviewed for corrective action. Wells requiring corrective action prior to injection are identified by magenta circles.

# 3.3.2 Protection of USDW

### 3.3.6 Plan for Site Access

CTV has obtained surface access rights for the duration of the project.

#### 3.3.7 Corrective Action Schedule

CTV

will ensure that CO<sub>2</sub> is confined to the injection zone within the AoR, protecting the overlying USDW and ensuring confinement.

Through time, if the plume development is not consistent with the predicted results, computational modeling will be updated to reassess the AoR. In this event, all wells in the updated AoR will be subject to the Corrective Action Plan and be remediated if necessary.

# 3.4 Reevaluation Schedule and Criteria

### 3.4.1 AoR Reevaluation Cycle

CTV will reevaluate the above described AoR at a minimum every five years during the injection and post-injection phases, as required by 40 CFR 146.84 (e).

Simulation study results are reviewed when operating data is acquired. Preparation of necessary operational data for the review includes injection rates and pressures, CO<sub>2</sub> injectate concentrations, and monitoring well information (storage reservoir and overlying dissipation intervals).

Dynamic operating and monitoring data that will be incorporated into future reevaluation will include:

- 1. Pressure data from monitoring wells that constrain and define plume development.
- CO2 content/saturation from monitoring wells. This data may be acquired with direct aqueous measurements and cased hole log results that will constrain and define plume development.
- 3. Injection pressures and volumes. The injection pressures and volumes in the computational model are maximum values. If the actual rates are lower than expected, the plume will develop at a slower rate than expected and be reflected in the pressure and CO<sub>2</sub> concentration data in 1 and 2 above.
- 4. A review of the full suite of water quality data collected from monitoring wells in addition to CO<sub>2</sub> content/saturation (to evaluate the potential for unexpected reactions between the injected fluid and the rock formation).

- 5. Review and submission of any geologic data acquired since the last modeling effort, including any additional site characterization performed for future injection wells.
- Reevaluation modeling results will be compared with the most recent modeling (i.e., from the most recent AoR reevaluation). A report describing the comparison of the modeling results will be provided to the EPA with a discussion on whether the results are consistent.
- 7. Description of the specific actions that will be taken if there are discrepancies between monitoring data and prior modeling results (e.g., remodel the AoR, update all project plans, perform additional corrective action if needed, and submit the results to EPA).

Re-evaluation results will be compared to the original results to understand dynamic inputs affecting plume development and static inputs that would impact injectivity and storage space. Static inputs that may potentially be considered to understand discrepancies between initial and re-evaluation computational models could include permeability, sand continuity and porosity. Although the AoR has been fully delineated, all inputs to the static and dynamic model will be reviewed.

As needed, CTV will review all of the plans that are impacted by a potential AoR increase such as Corrective Action and Emergency and Remedial Response. For corrective action, all wells potentially impacted by a changing AoR will be addressed immediately.

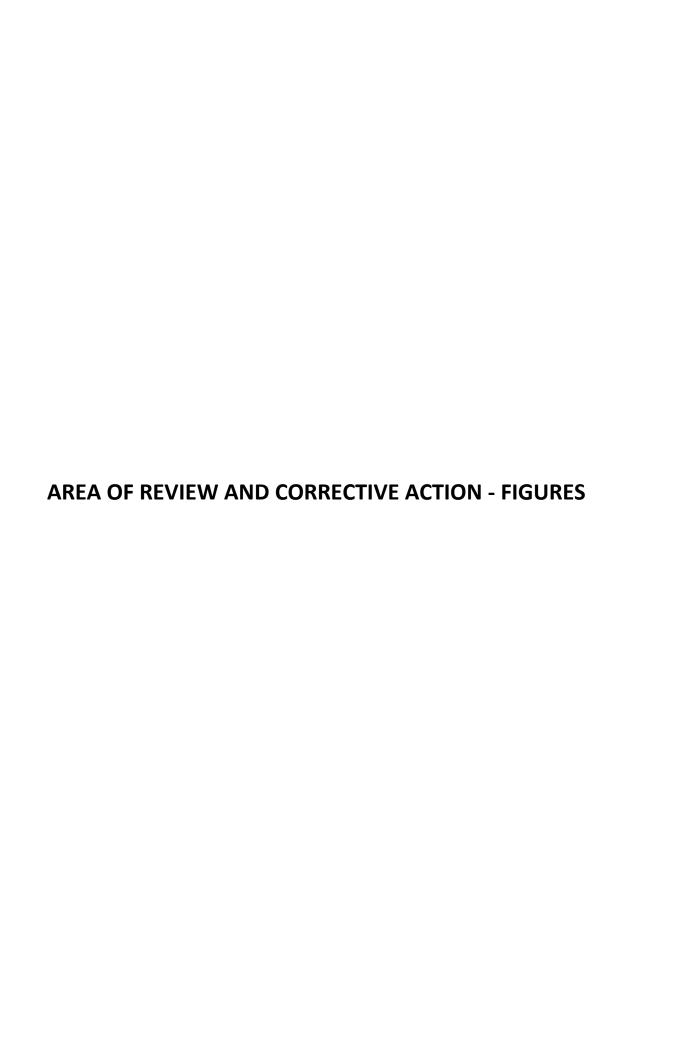
#### 3.4.2 Triggers for AoR Reevaluations Prior to the Next Scheduled Reevaluation

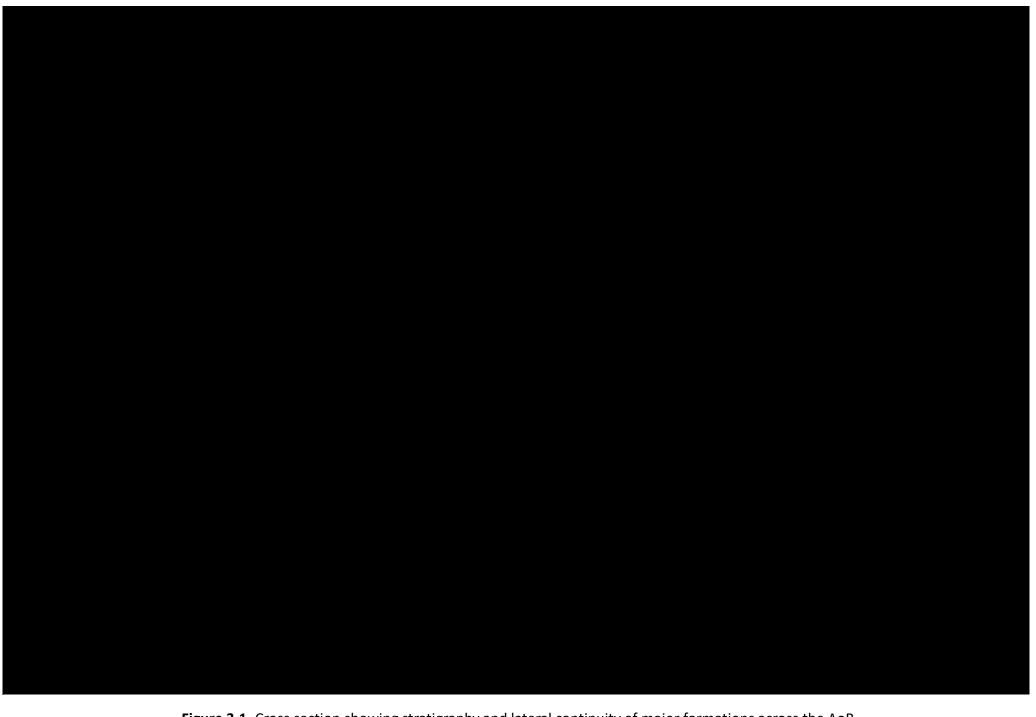
An ad-hoc re-evaluation prior to the next scheduled re-evaluation will be triggered if any of the following occur:

- 1. Changes in pressure or injection rate that are unexpected and outside three (3) standard deviations from the average will trigger a new evaluation of the AoR.
- 2. Difference between the computation modeling and observed plume development:
  - a. Unexpected changes in fluid constituents or pressure outside the reservoir that are not related to well integrity.
  - b. Reservoir pressures increase versus injected volume is inconsistent with computational modeling results.
  - c. Any other activity prompting a model recalibration.
- 3. Seismic monitoring anomalies within two miles of the injection well that are indicative of:

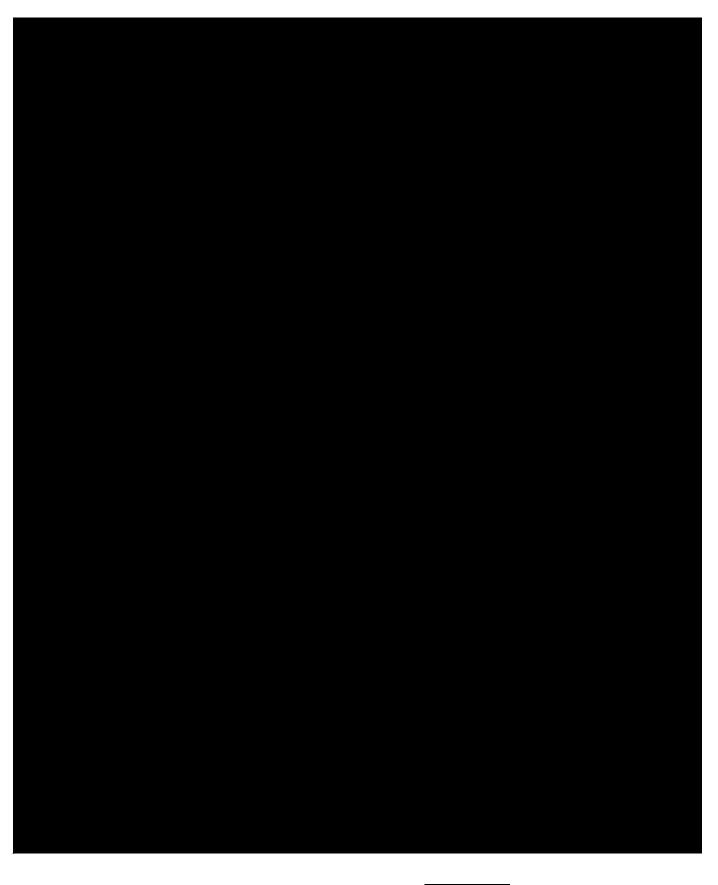
- a. The presence of faults near the confining zone that indicates propagation into the confining zone.
- b. Events reasonably associated with CO<sub>2</sub> injection that are greater than M3.5.
- 2. Exceeding 90% of the geologic formation fracture pressure in any injection or monitoring wells.
- 3. Detection of changes in shallow groundwater chemistry (e.g., a significant increase in the concentration of any analytical parameter that was not anticipated by the AoR delineation modeling).
- Initiation of competing injection projects within the same injection formation within a 1mile radius of the injection well (including when additional CTV injection wells come online);
- 5. A significant change in injection operations, as measured by wellhead monitoring;
- 6. Significant land-use changes that would impact site access; and
- 7. Any other activity prompting a model recalibration.

CTV will discuss any such events with the UIC Program Director within six months of an event to determine if an AoR re-evaluation is required. If an unscheduled re-evaluation is triggered, CTV will perform the steps described at the beginning of this section of the Plan.

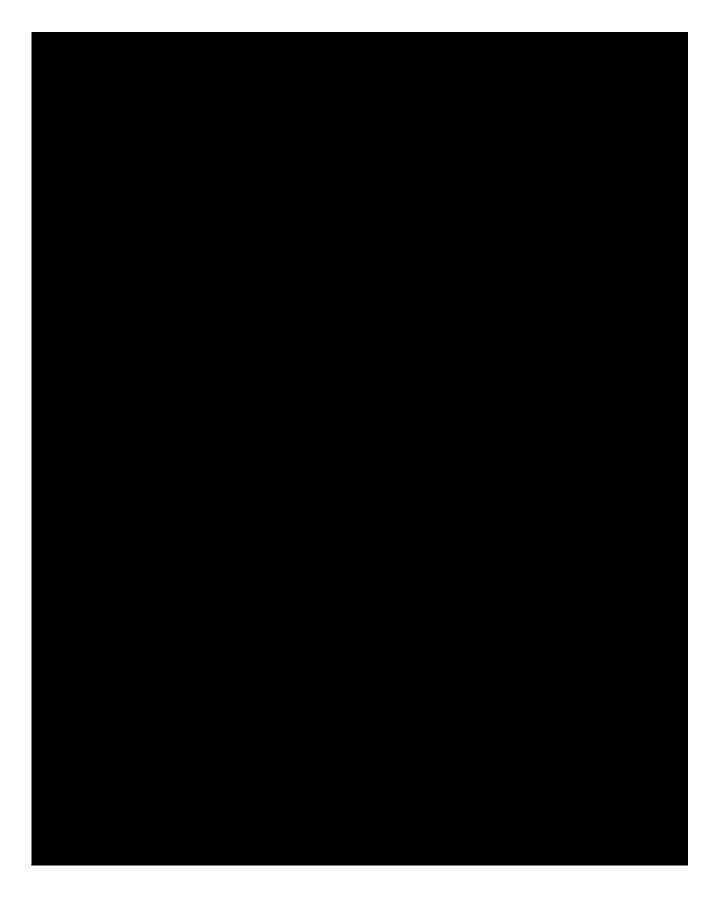




**Figure 3.1.** Cross section showing stratigraphy and lateral continuity of major formations across the AoR.



**Figure 3.2.** Location of wells with open-hole log data and relative permeability or capillary pressure data used to develop the static and computational models.



**Figure 3.3**. Plan view of the model boundary and geo-cellular grid used to define the CO2 plume extent and associated AoR.





**Figure 3.6.** Location of wells with core data used for permeability transform.

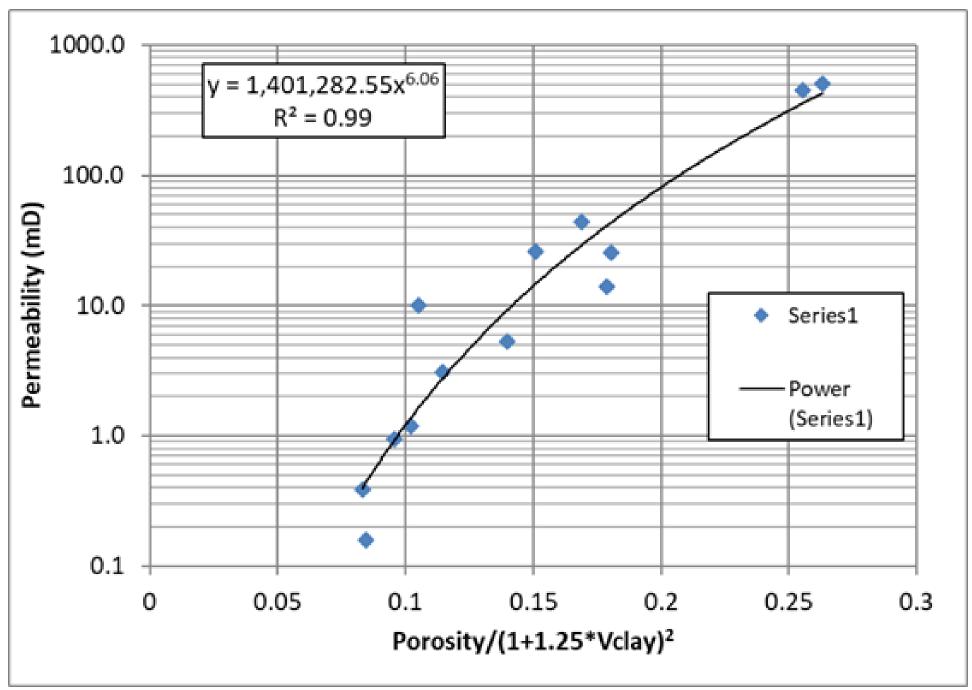
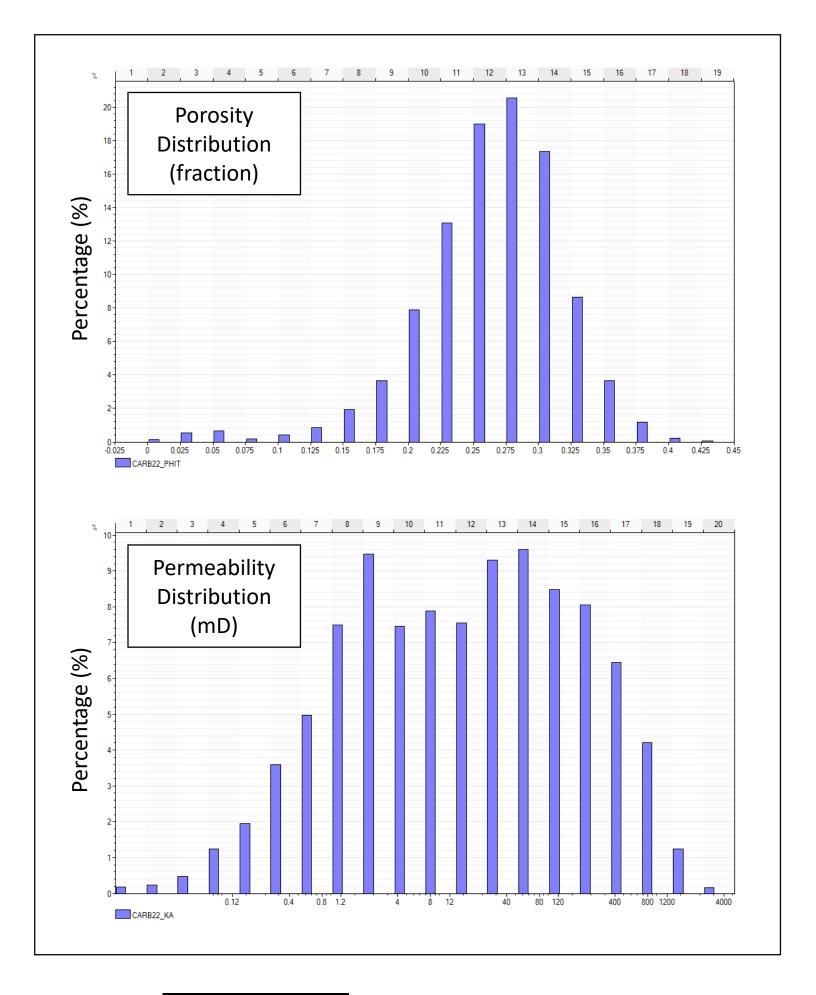
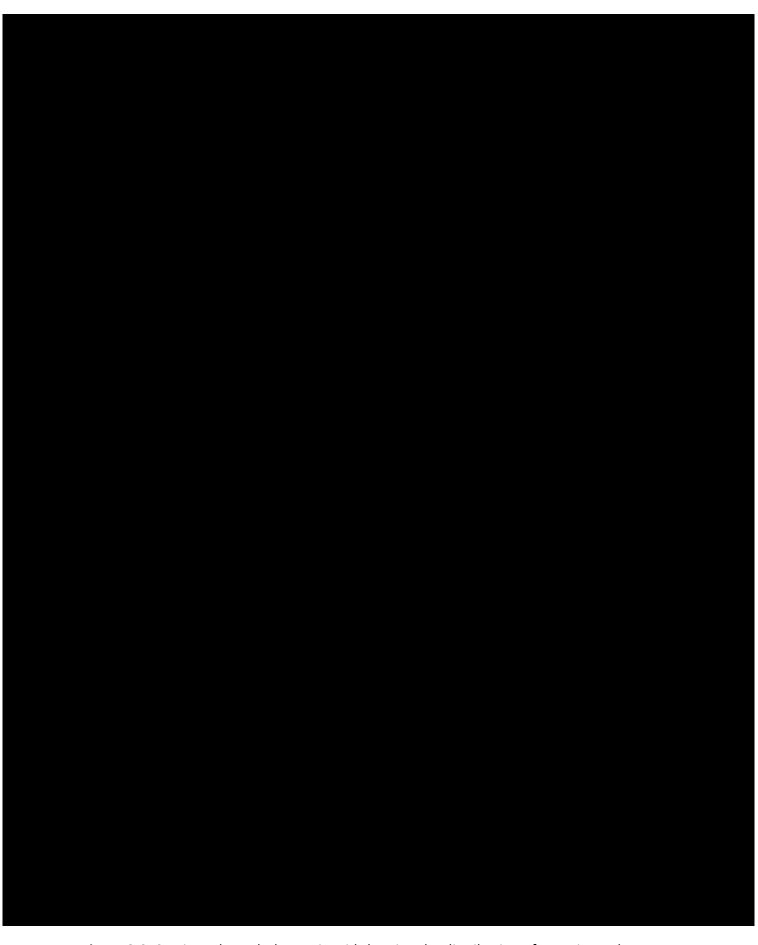


Figure 3.7. Permeability transform for Sacramento Basin zones.





**Figure 3.9.** Sections through the static grid showing the distribution of porosity and permeability in the reservoir.

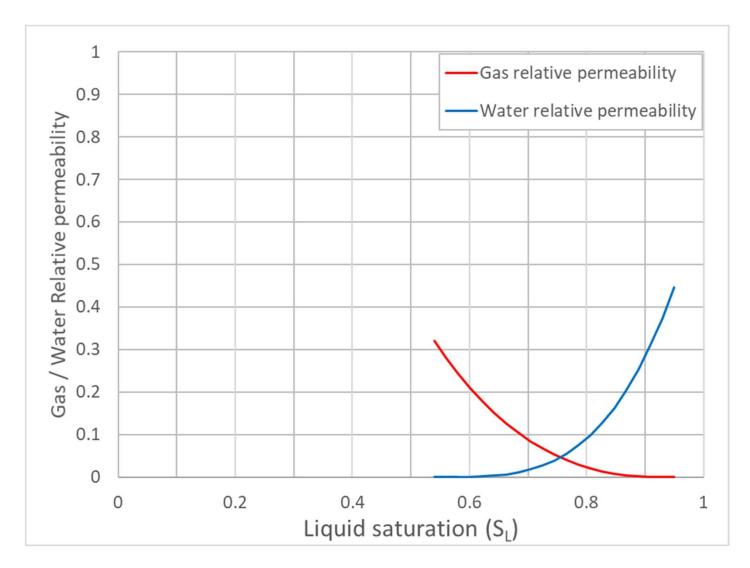


Figure 3.10: Relative permeability curves for Gas-Water system

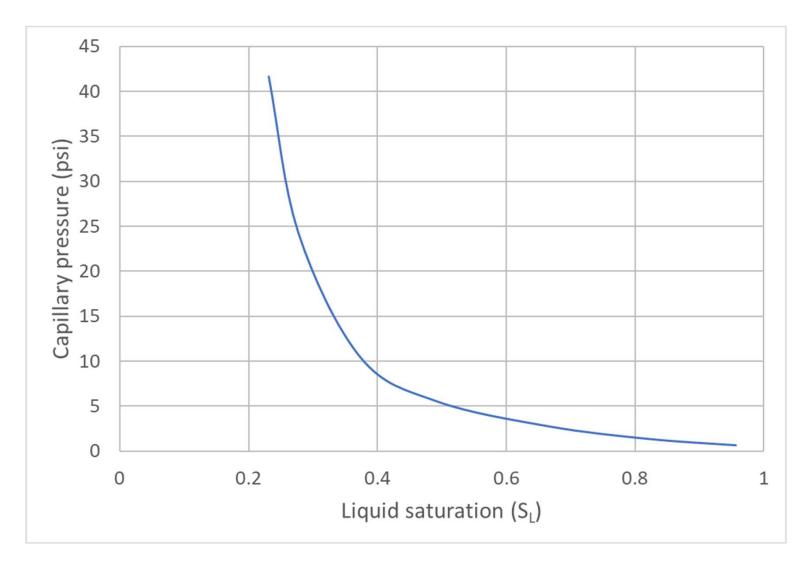
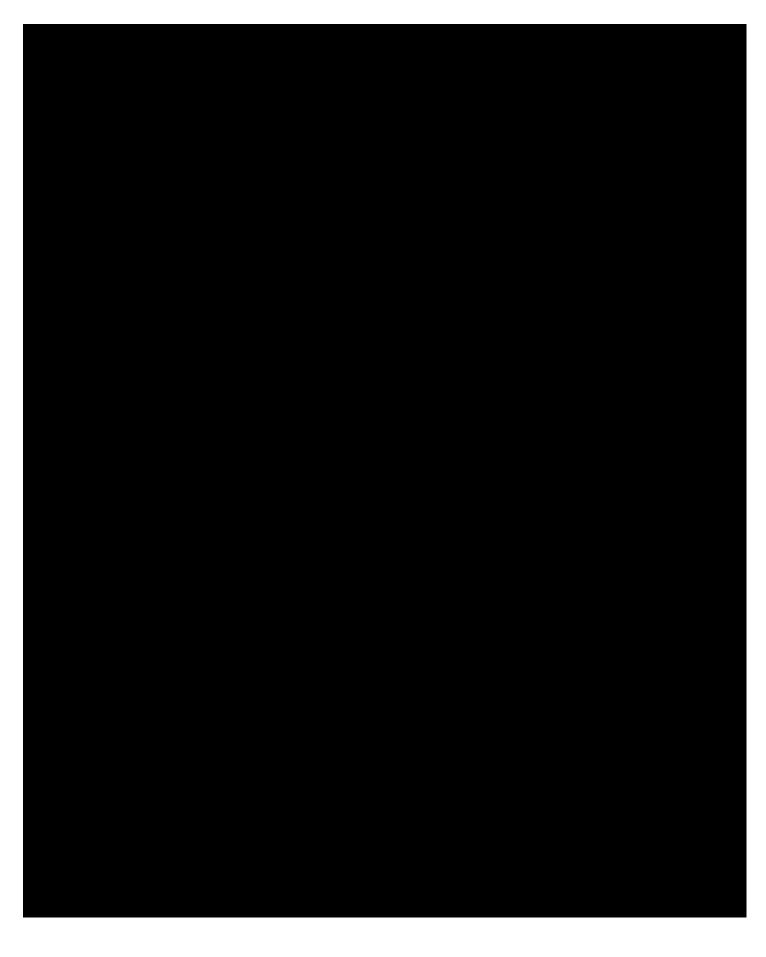


Figure 3.11: Capillary pressure curve



**Figure 3.12.** Plume development through time (1-year, 4-year, 6-year, 10-year, 16-year, 28-year (end of injection), 52-year post injection and 100-year post injection.

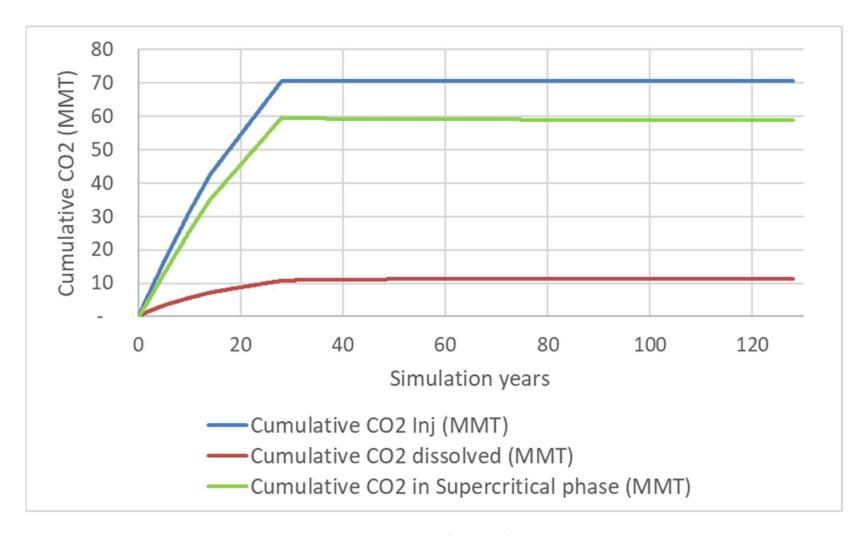
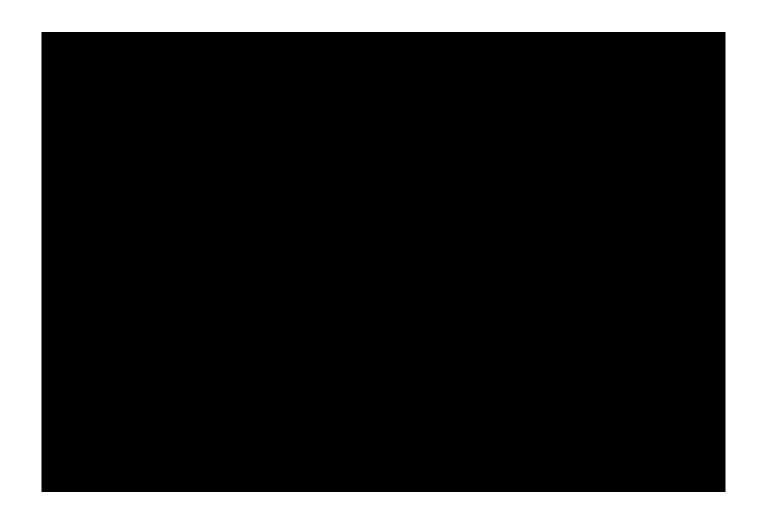
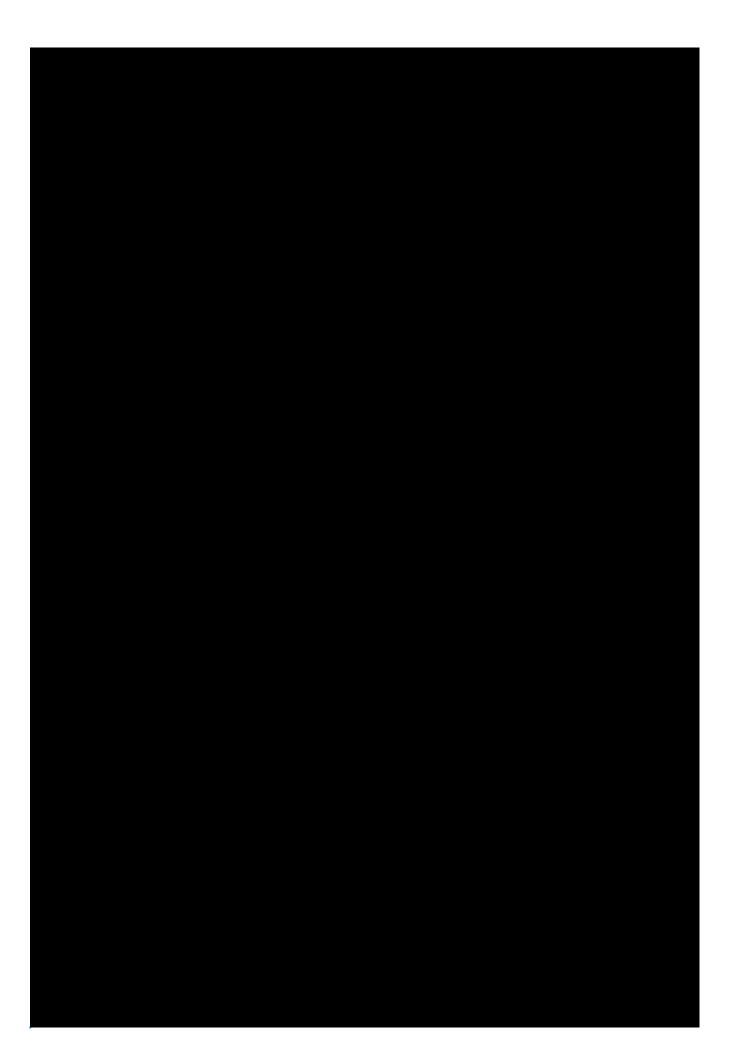


Figure 3.14: CO2 storage mechanisms in the reservoir



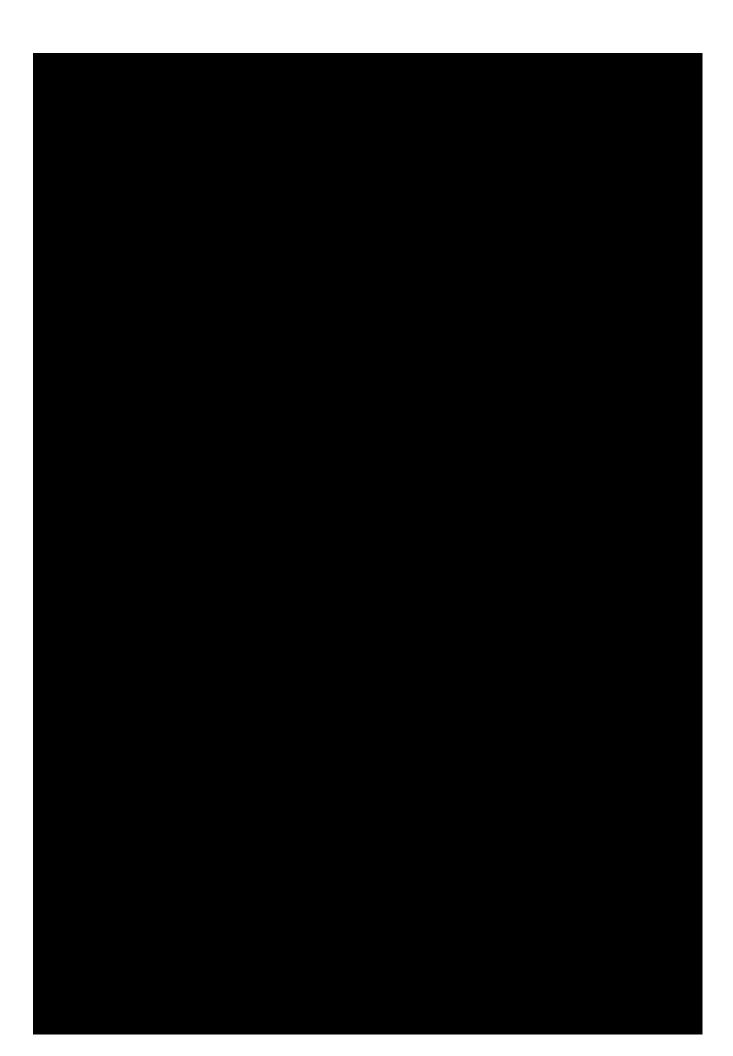








**Figure 3.19.** Map showing the location of injection wells and monitoring wells.



AREA OF REVIEW AND CORRECTIVE ACTION PLAN - TABLES

Table 3.1. Model domain information.

Coordinate System	State Plane	State Plane			
HorizontalDatum	North American Datum (NAD) 27				
Coordinate System Units	Feet				
Zone	Zone 2				
FIPSZONE	0402 <b>ADSZONE</b> 3301		3301		
Coordinate of X min		Coordinate of X max			
Coordinate of Y min		Coordinate of Y max			
Elevation of bottom of domain		Elevation of top of domain			

 Table 3.2. Initial conditions.

Parameter	Value or Range	Units	Corresponding Elevation (ft MSL)	Data Source
Temperature	151	Fahrenheit	6900	Bottom hole temperature data from logs in the area
Formation pressure	2860	Pounds per square inch	6900	Downhole RFT data from PGE Test injection / Withdrawal well 1 adjusted to depth
Salinity	15,500	Parts per million	6900	Water analysis and Log calculated salinity curves

**Table 3.3.** Operating details.

Operating Information	Injection Well	Injection Well	Injection Well E1	Injection Well E2	Injection Well W1	Injection Well W2
Location (global coordinates)						
Model coordinates (ft) X Y						
No. of perforated intervals	11	5	14	6	7	8
Perforated interval (ft TVD) Top Bottom	6176 7016	7192 7790	6010 6950	6980 7720	6150 6930	7020 7840
Casing diameter (in.)	7	7	7	7	7	7
Modeled injection period Start End	01/01/2026 01/01/2054	01/01/2026 01/01/2054	01/01/2026 01/01/2036	01/01/2026 01/01/2040	01/01/2026 01/01/2031	01/01/2026 01/01/2042
Modeled Injection duration (years)	28	28	10	14	5	14
Modeled Injection rate (t/day)*	2754	2754	688	688	688	1377
Modeled CO <sub>2</sub> Injected (MMT)	28.2	28.2	2.5	3.5	1.3	7.0

**Table 3.4.** Injection pressure details.

Injection Pressure Details	Injection Well C1	Injection Well C2	Injection Well E1	Injection Well E2	Injection Well W1	Injection Well W2
Fracture gradient (psi/ft)	0.76	0.76	0.76	0.76	0.76	0.76
Maximum allowable injection pressure (90% of fracture pressure) (psi)	4224	4919	4111	4774	4207	4802
Elevation corresponding to maximum injection pressure (ft TVD)	6178	7192	6011	6984	6155	7020
Elevation at the top of the perforated interval (ft TVD)	6178	7192	6011	6984	6155	7020
Calculated maximum injection pressure at the top of the perforated interval (psi)	4224	4919	4111	4774	4207	4802
Planned injection pressure (psi) / gradient (psi/ft) at top of perforations	3050 / 0.494	3566 / 0.496	2901 / 0.483	3363 / 0.482	2961 / 0.481	3504 / 0.499

 Table 3.5.
 Simulation sensitivity scenarios

Scenario	CO2 plume & AoR impact
Porosity: 10% reduction from base case	Minimal Impact
Porosity: 10% increase from base case	Minimal Impact
Permeability: 10% reduction from base case	Minimal Impact
Permeability: 10% increase from base case	Minimal Impact

Table 3.6: Wellbores in the AoR by Status

Status	Count
Active	0
Idle	0
Plugged and Abandoned	46
Total	46